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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/742,153	12/19/2003	Mark J. Enzmann	C02-0128-000; ATT-185	6011
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EXAMINER				
DESR, PIERRE LOUIS				
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2617				
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10/29/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/742,153

Applicant(s)

ENZMANN, MARK J.

Examiner

PIERRE-LOUIS DESIR

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(c), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(c) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/18/2009 has been entered.

Response to Arguments

2. Applicant's arguments filed on 08/18/2009 have been fully considered but they are not persuasive.

Regarding the 112 second paragraph rejection applicants argue that since the actual handoff takes place at the cellular network as described in paragraphs 25-28 and figs. 3-4, it is evident that the logic at the cellular network is able to monitor the position of the handoff selector switch on the wireless device.

Examiner respectfully disagrees. Having the cellular being "able" to monitor the position of the handoff selector switch on the wireless device is not "specific" disclosure that the actual step takes place. Furthermore, no specific description of such determining or monitoring in the specification. Therefore, even having the claims being amended, the 112 second paragraph rejection stands. Also, there is no "monitoring" language present in the specification.

Applicant's arguments with respect to the independent claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 12, 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 12 and 13 have been amended with the following subject matter, "to determine that a handoff selector switch is not in an override position," and "determining that a handoff selector switch is not in an override position," respectively. The specification provides no support for the above added subject matter.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 12, 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pan in view of Segal and Jiang et al. (Jiang), US 20040087305 A1.

Regarding claim 12, Pan discloses an 802.1x network (see fig. 1, item 120) comprising an access point (see fig. 1, item 116) and comprising logic configured to determine when a call handoff switch from the 802.1x network to a cellular network is to occur and to communicate with a media gateway to cause the call handoff switch to occur (i.e., the communication network 206, more particularly the media gateway, detects that the mobile station 202 has reached the outer boundary 208 by measuring the radio signal strength of the mobile station perceived by the access point 212. Upon the radio signal strength reaching a first predetermined minimum threshold value, the media gateway 210 determines whether the mobile station 202 will move back toward the access point 212 such that its signal will improve, or move away from the access point such that communication with the mobile station must be handed-over to the second network 214 in order to maintain the established call. For example, a timer may be set to determine whether the mobile station 202 will return to coverage area such that its signal will improve, or move outside the range of coverage area such that it must handover to the cellular network. Once the communication network 206 detects that the radio signal strength from mobile station 202 has reached a second predetermined minimum threshold value, which is less than the first predetermined minimum threshold value, handover procedures are initiated) (see paragraph 38).

Although one skilled in the art would have found it obvious that the wireless LAN obviously comprises a server, Pan does not specifically disclose that the 802.1x comprising a server. Nor does it disclose determining a position of handoff selector switch.

However, Segal discloses an 802.1x network (see fig. 1) comprising a SIP CCF (i.e., server) (see fig. 1) for handling communications external to, as well as internal or inside the

WLAN (paragraph 14). And, in case of handover, the SIP CCF would transfer the new call to the WAN using the cellular address (paragraph 17).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Segal with the teachings described by Pan to arrive at the claimed invention. A motivation for doing so would have been to facilitate the handoff of the device by providing seamless mobility.

The combination of Segal and Pan, however, does not specifically disclose logic to determine a handoff selector switch is not in an override position.

However, Jiang discloses a HPMN which determine whether the handset is in manual (i.e., override) or automatic (i.e., not in override) network selection mode (see paragraph 34).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described to arrive at the claimed invention. A motivation for doing so would have been to select the best possible access.

Regarding claim 14, Pan discloses an 802.1x network (see claim 12 rejection) wherein the server comprises second logic configured to determine when a call handoff switch from a cellular network to the 802.1x network is to occur and to communicate with a media gateway that causes the media gateway to make appropriate connections to cause the call handoff switch to occur (see figs. 2-4, and paragraph 51. Also refer to paragraphs 53).

Regarding claim 15, Pan discloses a server (see claim 14 rejection) wherein said logic determines whether or not a signal level of a signal of a signal being transmitted from the 802.1x network to a wireless device exceeds a signal level of a signal being transmitted from the cellular network to the wireless device, said logic determining that a handoff from the 802.1x network to

the cellular network should occur when the signal level of the signal being transmitted from the 802.1x network to the wireless device does not exceed the signal level of the signal being transmitted from the cellular network to the wireless device (i.e., the media gateway 210, detects that the mobile station 202 has reached the outer boundary 208 by measuring the radio signal strength of the mobile station perceived by the access point 212. Upon the radio signal strength reaching a first predetermined minimum threshold value, the media gateway 210 determines whether the mobile station 202 will move back toward the access point 212 such that its signal will improve, or move away from the access point such that communication with the mobile station must be handed-over to the second network 214 in order to maintain the established call. For example, a timer may be set to determine whether the mobile station 202 will return to coverage area such that its signal will improve, or move outside the range of coverage area such that it must handover to the cellular network. Once the communication network 206 detects that the radio signal strength from mobile station 202 has reached a second predetermined minimum threshold value, which is less than the first predetermined minimum threshold value, handover procedures are initiated.

6. Claims 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baw in view and Jiang, and Sundar et al. (Sundar), US 20030134638 A1.

Regarding claim 13, Baw discloses a cellular network (see fig. 1) comprising call handoff circuitry to determine when a call handoff switch from an 802.1x network to the cellular network is to occur and communicating with a media gateway to connect to the cellular network, and communicating with the media gateway to disconnect from the 802.1x network (i.e., The

invention 10 (i.e., gateway) determines that a handoff is necessary towards an external cell site base station that is part of BTS 40. The Invention 10 formulates a Handover Request message frame and sends it to the Wide-Area Network 30, which looks up a list of potential handoff candidates and sends a **Handover Request message** to the handoff candidate base station ("new base station") that is part of BTS 40. The new base station activates a new traffic channel in anticipation of the handoff, and sends an Acknowledge message back to the Wide-Area Network, which then sends a **Handover Command message** to The Invention 10 (gateway) with parameters that the invention 10 translates and maps this GSM/CDMA/TDMA Handover Command signaling message into 802.11 by first forming a LAPDm message frame, and then further encapsulates it with 802.11 MAC layer headers. This message is then sent across the 802.11 WLAN air link towards the dual-mode cellular phone the dual-mode cellular phone moves into the coverage area of the new base station, connects to it and tunes to the assigned signaling channel. The dual-mode cellular phone now converts back into cellular mode. The dual-mode cellular phone now communicates directly with the new base station via the newly assigned signaling channel and sends a Handoff Access message to the new base station. The new base station then sends a Handover Complete message to the Wide-Area Network 30. The Wide-Area Network 30 then notifies The Invention 10 to release any communication links with the dual-mode cellular phone) (see paragraphs 199-220).

Baw, however, does not specifically disclose a network wherein the call handoff circuitry determining when a first signal strength from an 802.1x network falls below a first threshold, determining when a second signal strength of a cellular network rises above a second threshold, and determining that a handoff selector switch is not in an override position.

However, Jiang discloses a HPMN which determine whether the handset is in manual (i.e., override) or automatic (i.e., not in override) network selection mode (see paragraph 34).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Jiang with the teachings described by Baw to arrive at the claimed invention. A motivation for doing so would have been to select the best possible access.

The combination of Baw and Jiang does not specifically disclose a network wherein the call handoff circuitry determining when a first signal strength from an 802.1x network falls below a first threshold, determining when a second signal strength of a cellular network rises above a second threshold.

However, Sundar discloses determining when a first signal strength from an 802.1x network falls below a first threshold, determining when a second signal strength of a cellular network rises above a second threshold (i.e., detecting that the WLAN RF strength decreases below some threshold and the WWAN strength is above a threshold values) (see paragraph 67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to ensure proper handoff procedure.

Regarding claim 16, Baw discloses a network (see claim 13 rejection) further comprising logic configured to perform a call handoff switch from the cellular network to the 802.1x network so that a call being carried on the cellular network can be switched from the cellular network to the 802.1x network, and communicating with the media gateway to disconnect from the cellular network (see paragraphs 223-245).

Although Baw discloses a network as described, Baw does not specifically disclose a network wherein the logic determining when the second signal strength from the cellular network falls below a third threshold, determining when the first signal strength from the 802.1x network rises above a fourth threshold.

However, Sundar discloses sensing RF energy strength of a WWAN and WLAN, and whichever RF strength is above a threshold, that network will be chosen (see paragraphs 67 and 76, and 78).

Therefore, one skilled in the art would have found it obvious that if the device was presently using WWAN, a detection of the WWAN RF strength has to be below a certain threshold, and a detection of the WLAN RF strength has to be above a certain threshold for an handover to WLAN to take place.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to ensure proper handoff procedure.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PIERRE-LOUIS DESIR whose telephone number is (571)272-7799. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (571)272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PIERRE-LOUIS DESIR/
Examiner, Art Unit 2617